SEQUENCE LISTING

```
<110> Klein, Robert D.
Brennan, Thomas J.
```

<120> METHODS OF CREATING CONSTRUCTS USEFUL FOR INTRODUCING SEQUENCES INTO EMBRYONIC STEM CELLS

```
<130> 376472000200
```

<140> Unassigned

<141> 1998-11-17

<150> 60/084,949

<151> 1998-05-11

<160> 44

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 4768

<212> DNA

<213> Plasmid vector

<400> 1

gttaactacg tcaggtggca cttttcgggg aaatgtgcgc ggaaccccta tttgtttatt 60 tttctaaata cattcaaata tgtatccgct catgagacaa taaccctgat aaatgcttca 120 ataatattga aaaaggaaga gtatgagtat tcaacatttc cgtgtcgccc ttattccctt 180 ttttgcggca ttttgccttc ctgtttttgc tcacccagaa acgctggtga aagtaaaaga 240 tgctgaagat cagttgggtg cacgagtggg ttacatcgaa ctggatctca acagcggtaa 300 360 gatccttgag agttttcgcc ccgaagaacg ttctccaatg atgagcactt ttaaagttct gctatgtggc gcggtattat cccgtgttga cgccgggcaa gagcaactcg gtcgccgcat 420 acactattct cagaatgact tggttgagta ctcaccagtc acagaaaagc atcttacgga 480 540 tggcatgaca gtaagagaat tatgcagtgc tgccataacc atgagtgata acactgcqqc 600 caacttactt ctgacaacga tcggaggacc gaaggagcta accgcttttt tgcacaacat gggggatcat gtaactcgcc ttgatcgttg ggaaccggag ctgaatgaag ccataccaaa 660 cgacgagegt gacaccaega tgeetgtage aatggcaaca aegttgegea aactattaae 720 tggcgaacta cttactctag cttcccggca acaattaata gactggatgg aggcggataa 780 agttgcagga ccacttctgc gctcggccct tccggctggc tggtttattg ctgataaatc 840 tggagccggt gagcgtgggt ctcgcggtat cattgcagca ctggggccag atggtaagcc 900 ctcccgtatc gtagttatct acacgacggg gagtcaggca actatggatg aacgaaatag 960 acagatcgct gagataggtg cctcactgat taagcattgg taactgtcag accaagttta 1020 ctcatatata ctttagattq atttaccccq gttgataatc agaaaagccc caaaaacagg 1080 aagattgtat aagcaaatat ttaaattgta aacgttaata ttttgttaaa attcgcgtta 1140 aatttttgtt aaatcagctc attttttaac caataggccg aaatcggcaa aatcccttat 1200 aaatcaaaag aatagcccga gatagggttg agtgttgttc cagtttggaa caagagtcca 1260 ctattaaaga acgtggactc caacgtcaaa gggcgaaaaa ccgtctatca gggcgatggc 1320 ccactacgtg aaccatcacc caaatcaagt tttttggggt cgaggtgccg taaagcacta 1380 aatcggaacc ctaaagggag cccccgattt agagcttgac ggggaaagcg aacgtggcga 1440 gaaaggaagg gaagaaagcg aaaggagcqq qcqctagqqc qctqqcaaqt qtaqcqqtca 1500 cgctgcgcgt aaccaccaca cccgccqcgc ttaatgcgcc gctacagggc gcgtaaaagg 1560 atctaggtga agatcctttt tgataatctc atgaccaaaa tcccttaacg tgagttttcg 1620 ttecactgag egtcagaccc cgtagaaaag atcaaaggat cttcttgaga tcctttttt 1680 ctgcgcgtaa tctgctgctt gcaaacaaaa aaaccaccgc taccagcggt ggtttgtttg 1740 ccggatcaag agctaccaac tctttttccg aaggtaactg gcttcagcag agcqcagata 1800 ccaaatactg ttcttctagt gtagccgtag ttaggccacc acttcaagaa ctctgtagca 1860

```
cogectacat acctegetet getaateetg ttaccagtgg etgetgeeag tggegataag
                                                                      1920
togtgtotta cogggttgga otcaagaoga tagttacogg ataaggogca goggtogggo
                                                                      1980
tgaacggggg gttcgtgcac acagcccagc ttggagcgaa cgacctacac cgaactgaga
                                                                      2040
tacctacage gtgagetatg agaaagegee aegetteeeg aagggagaaa ggeggacagg
                                                                      2100
tatccggtaa gcggcagggt cggaacagga gagcgcacga gggagcttcc agggggaaac
                                                                      2160
gcctggtatc tttatagtcc tgtcgggttt cgccacctct gacttgagcg tcgatttttg
                                                                      2220
tgatgctcgt caggggggcg gagcctatgg aaaaacgcca gcaacgcggc ctttttacgg
                                                                      2280
ttcctggcct tttgctggcc ttttgctcac atgtaatgtg agttagctca ctcattaggc
                                                                      2340
accccagget ttacacttta tgcttccggc tcgtatgttg tgtggaattg tgagcggata
                                                                      2400
acaatttcac acaggaaaca gctatgacca tgattacgcc aagctacgta atacgactca
                                                                      2460
ctaggcggcc gcgtttaaac aatgtgctcc tctttggctt gcttccgcgg gccaagccag
                                                                      2520
acaagaacca gttgacgtca agcttcccgg gacgcgtgct agcggcgcgc cgaattcctg
                                                                      2580
caggattcga gggcccctgc aggtcaattc taccgggtag gggaggcgct tttcccaagg
                                                                      2640
cagtctggag catgcgcttt agcagccccg ctggcacttg gcgctacaca agtggcctct
                                                                      2700
ggcctcgcac acattccaca tccaccggta gcgccaaccg gctccgttct ttggtggccc
                                                                      2760
cttcgcgcca ccttctactc ctcccctagt caggaagttc cccccgccc cgcagctcgc
                                                                      2820
gtcgtgcagg acgtgacaaa tggaagtagc acgtctcact agtctcgtgc agatggacag
                                                                      2880
caccgctgag caatggaagc gggtaggcct ttggggcagc ggccaatagc agctttgctc
                                                                      2940
cttcgctttc tgggctcaga ggctgggaag gggtgggtcc gggggcgggc tcaggggggg
                                                                      3000
gctcaggggc ggggcgggcg cgaaggtcct cccgaggccc ggcattctcg cacgcttcaa
                                                                      3060
aagegeacgt etgeegeget gtteteetet teeteatete egggeettte gaeetgeage
                                                                      3120
caatatggga tcggccattg aacaagatgg attgcacgca ggttctccgg ccgcttgggt
                                                                      3180
ggagaggcta ttcggctatg actgggcaca acagacaatc ggctgctctg atgccgccgt
                                                                      3240
gttccggctg tcagcgcagg ggcgcccggt tctttttgtc aagaccgacc tgtccggtgc
                                                                      3300
cctgaatgaa ctgcaggacg aggcagcgcg gctatcgtgg ctggccacga cgggcgttcc
                                                                      3360
ttgcgcagct gtgctcgacg ttgtcactga agcgggaagg gactggctgc tattgggcga
                                                                      3420
agtgccgggg caggatetee tgtcatetea cettgeteet gccgagaaag tatecateat
                                                                      3480
ggctgatgca atgcggcggc tgcatacgct tgatccggct acctgcccat tcgaccacca
                                                                      3540
agcgaaacat cgcatcgagc gagcacgtac tcggatggaa gccggtcttg tcgatcagga
                                                                      3600
tgatctggac gaagagcatc aggggctcgc gccagccgaa ctgttcgcca ggctcaaggc
                                                                      3660
gcgcatgccc gacggcgatg atctcgtcgt gacccatggc gatgcctgct tgccgaatat
                                                                      3720
catggtggaa aatggccgct tttctggatt catcgactgt ggccggctgg gtgtggcgga
                                                                      3780
ccgctatcag gacatagcgt tggctacccg tgatattgct gaagagcttg gcggcgaatg
                                                                      3840
ggctgaccgc ttcctcgtgc tttacggtat cgccgctccc gattcgcagc gcatcgcctt
                                                                      3900
ctatcgcctt cttgacgagt tcttctgagg ggatcgatcc gtcctgtaag tctgcagaaa
                                                                      3960
ttgatgatct attaaacaat aaagatgtcc actaaaatgg aagtttttcc tgtcatactt
                                                                      4020
tgttaagaag ggtgagaaca gagtacctac attttgaatg gaaggattgg agctacgggg
                                                                      4080
gtgggggtgg ggtgggatta gataaatgcc tgctctttac tgaaggctct ttactattgc
                                                                      4140
tttatgataa tgtttcatag ttggatatca taatttaaac aagcaaaacc aaattaaggg
                                                                      4200
ccagctcatt cctcccactc atgatctata gatctataga tctctcgtgg gatcattgtt
                                                                      4260
tttctcttga ttcccacttt gtggttctaa gtactgtggt ttccaaatgt gtcagtttca
                                                                      4320
tagectgaag aacgagatca geagectetg ttecacatae actteattet eagtattgtt
                                                                      4380
ttgccaagtt ctaattccat cagaagctga ctctagatct ggatccggcc agctaggccg
                                                                      4440
tegacetega gtgateaggt accaaggtee tegetetgtg teegttgage tegacgacae
                                                                      4500
aggacacgca aattaattaa ggccggcccg taccctctag tcaaggcctt aagtgagtcg
                                                                      4560
tattacggac tggccgtcgt tttacaacgt cgtgactggg aaaaccctgg cgttacccaa
                                                                      4620
cttaatcgcc ttgcagcaca tccccctttc gccagctggc gtaatagcga agaggcccgc
                                                                      4680
accgatcgcc cttcccaaca gttgcgcagc ctgaatggcg aatggcgctt cgcttggtaa
                                                                      4740
taaagcccgc ttcggcgggc ttttttt
                                                                      4768
```

```
<210> 2
```

<211> 6355

<212> DNA

<213> Plasmid vector

acataactta cggtaaatgg cccgcctggc tgaccgccca acgacccccg cccattgacg 120 tcaataatga cgtatgttcc catagtaacg ccaataggga ctttccattg acgtcaatgg 180 gtggagtatt tacggtaaac tgcccacttg gcagtacatc aagtgtatca tatgccaagt 240 acgcccccta ttgacgtcaa tgacggtaaa tggcccgcct ggcattatgc ccagtacatg 300 accttatggg actttcctac ttggcagtac atctacgtat tagtcatcgc tattaccatg 360 gtgatgcggt tttggcagta catcaatggg cgtggatagc ggtttgactc acggggattt 420 ccaagtctcc accccattga cgtcaatggg agtttgtttt ggcaccaaaa tcaacgggac 480 tttccaaaat gtcgtaacaa ctccgcccca ttgacgcaaa tgggcggtag gcgtgtacgg 540 tgggaggtct atataagcag agctggttta gtgaaccgtc agatccgcta gcgctaccgg 600 tegecaccat ggtgageaag ggegaggage tgttcaeegg ggtggtgeee ateetggteg 660 agctggacgg cgacgtaaac ggccacaagt tcagcgtgtc cggcgagggc gagggcgatg 720 ccacctacgg caagetgace etgaagttca tetgcaccac eggcaagetg eccqtqccet 780 ggcccaccct cgtgaccacc ctgacctacg gcgtgcagtg cttcagccgc taccccgacc 840 acatgaagca gcacgacttc ttcaagtccg ccatgcccga aggctacgtc caggagcgca 900 ccatcttctt caaggacgac ggcaactaca agacccgcgc cgaggtgaag ttcgagggcg 960 acaccctggt gaaccgcatc gagctgaagg gcatcgactt caaggaggac ggcaacatcc 1020 tqqggcacaa gctggagtac aactacaaca gccacaacgt ctatatcatg gccgacaagc 1080 agaagaacgg catcaaggtg aacttcaaga tccgccacaa catcgaggac ggcagcgtgc 1140 agetegeega ceaetaceag cagaacacee ceateggega eggeeegtg etgetgeegg 1200 acaaccacta cctgagcacc cagtccgccc tgagcaaaga ccccaacgag aagcgcgatc 1260 acatggtcct gctggagttc gtgaccgccg ccgggatcac tctcggcatg gacgagctgt 1320 acaagtccgg actcagatcc accggatcta gataactgat cataatcagc cataccacat 1380 ttgtagaggt tttacttgct ttaaaaaacc tcccacacct ccccctgaac ctgaaacata 1440 aaatgaatgc aattgttgtt gttaacttgt ttattgcagc ttataatggt tacaaataaa 1500 gcaatagcat cacaaatttc acaaataaag cattttttc actgcattct agttgtggtt 1560 tgtccaaact catcaatgta tcttaacgcg aactacgtca ggtggcactt ttcggggaaa 1620 tgtgcgcgga acccctattt gtttattttt ctaaatacat tcaaatatqt atccqctcat 1680 gagacaataa ccctgataaa tgcttcaata atattgaaaa aggaagagta tgagtattca 1740 acattccgt gtcgccctta ttcccttttt tgcggcattt tgccttcctg tttttgctca 1800 cccagaaacg ctggtgaaag taaaagatgc tgaagatcag ttgggtgcac gagtgggtta 1860 catcgaactg gatctcaaca gcggtaagat ccttgagagt tttcgccccg aagaacgttc 1920 tccaatgatg agcactttta aagttctgct atgtggcgcg gtattatccc gtgttgacgc 1980 cgggcaagag caactcggtc gccgcataca ctattctcag aatgacttgg ttgagtactc 2040 accagtcaca gaaaagcatc ttacggatgg catgacagta agagaattat gcagtgctgc 2100 cataaccatg agtgataaca ctgcggccaa cttacttctg acaacgatcg gaggaccgaa 2160 ggagctaacc gcttttttgc acaacatggg ggatcatgta actcgccttg atcgttggga 2220 accggagctg aatgaagcca taccaaacga cgagcgtgac accacgatgc ctgtagcaat 2280 ggcaacaacg ttgcgcaaac tattaactgg cgaactactt actctagctt cccggcaaca 2340 attaatagac tggatggagg cggataaagt tgcaggacca cttctgcgct cggcccttcc 2400 ggctggctgg tttattgctg ataaatctgg agccggtgag cgtgggtctc gcggtatcat 2460 tgcagcactg gggccagatg gtaagccctc ccgtatcgta gttatctaca cgacggggag 2520 tcaggcaact atggatgaac gaaatagaca gatcgctgag ataggtgcct cactgattaa 2580 qcattggtaa ctgtcagacc aagtttactc atatatactt tagattgatt taccccggtt 2640 gataatcaga aaagccccaa aaacaggaag attgtataag caaatattta aattgtaaac 2700 gttaatattt tgttaaaatt cgcgttaaat ttttgttaaa tcagctcatt ttttaaccaa 2760 taggccgaaa tcggcaaaat cccttataaa tcaaaagaat agcccgagat agggttgagt 2820 gttgttccag tttggaacaa gagtccacta ttaaaqaacq tqqactccaa cqtcaaaqqq 2880 cgaaaaaccg tctatcaggg cgatggccca ctacgtgaac catcacccaa atcaagtttt 2940 ttggggtcga ggtgccgtaa agcactaaat cggaacccta aagggagccc ccgatttaga 3000 gcttgacggg gaaagcgaac gtggcgagaa aggaagggaa gaaagcgaaa ggagcgggcg 3060 ctagggcgct ggcaagtgta gcggtcacgc tgcgcgtaac caccacaccc gccgcgctta 3120 atgcgccgct acagggcgcg taaaaggatc taggtgaaga tcctttttga taatctcatg 3180 accaaaatcc cttaacgtga gttttcgttc cactgagcgt cagaccccgt agaaaagatc 3240 aaaggatett ettgagatee tittittetg egegtaatet getgetigea aacaaaaaa 3300 ccaccgctac cagcggtggt ttgtttgccg gatcaagagc taccaactct ttttccqaaq 3360 gtaactggct tcagcagagc gcagatacca aatactgttc ttctagtgta gccgtagtta 3420 ggccaccact tcaagaactc tgtagcaccg cctacatacc tcgctctgct aatcctgtta

3480

```
ccagtggctg ctgccagtgg cgataagtcg tgtcttaccg ggttggactc aagacgatag
                                                                    3540
ttaccggata aggcgcagcg gtcgggctga acggggggtt cgtgcacaca qcccaqcttg
                                                                    3600
gagcgaacga cctacaccga actgagatac ctacagcgtg agctatgaga aagcgccacg
                                                                    3660
cttcccgaag ggagaaaggc ggacaggtat ccggtaagcg gcagggtcgg aacaggagag
                                                                    3720
cgcacgaggg agcttccagg gggaaacgcc tggtatcttt atagtcctgt cgggtttcgc
                                                                    3780
cacctctgac ttgagcgtcg atttttgtga tgctcgtcag gggggcggag cctatggaaa
                                                                    3840
aacgccagca acgcggcctt tttacggttc ctggcctttt gctggccttt tgctcacatg
                                                                    3900
taatgtgagt tageteacte attaggeace ceaggettta caetttatge tteeggeteg
                                                                    3960
tatgttgtgt ggaattgtga gcggataaca atttcacaca ggaaacagct atgaccatga
                                                                    4020
ttacgccaag ctacgtaata cgactcacta ggcggccgcg tttaaacaat gtgctcctct
                                                                    4080
ttggcttgct tccgcgggcc aagccagaca agaaccagtt gacgtcaagc ttcccgggac
                                                                    4140
gcgtgctagc ggcgccga attcctgcag gattcgaggg cccctgcagg tcaattctac
                                                                    4200
cgggtagggg aggcgctttt cccaaggcag tctggagcat gcgctttagc agccccgctg
                                                                    4260
gcacttggcg ctacacaagt ggcctctggc ctcgcacaca ttccacatcc accggtaqcq
                                                                    4320
ccaacegget cegttetttg gtggcccett cgcgccacet tetactecte ccetagtcag
                                                                    4380
gaagttcccc cccgccccgc agctcgcgtc gtgcaggacg tgacaaatgg aagtaqcacg
                                                                    4440
tctcactagt ctcgtgcaga tggacagcac cgctgagcaa tggaagcggg taggcctttg
                                                                    4500
gggcagcggc caatagcagc tttgctcctt cgctttctgg gctcagaggc tgggaagggg
                                                                    4560
tgggtccggg ggcgggctca ggggcgggct caggggcggg gcgggcgcga aggtcctccc
                                                                    4620
gaggecegge attetegeae getteaaaag egeaegtetg eegegetgtt eteetettee
                                                                    4680
tcatctccgg gcctttcgac ctgcagccaa tatgggatcg gccattgaac aagatggatt
                                                                    4740
gcacgcaggt tctccggccg cttgggtgga gaggctattc ggctatgact gggcacaaca
                                                                    4800
gacaatcggc tgctctgatg ccgccgtgtt ccggctgtca gcgcaggggc gcccggttct
                                                                     4860
ttttgtcaag accgacctgt ccggtgccct gaatgaactg caggacgagg cagcgcgct
                                                                     4920
atogtggctg gccacgacgg gcgttccttg cgcagctgtq ctcgacgttg tcactgaaqc
                                                                     4980
gggaagggac tggctgctat tgggcgaagt gccggggcag gatctcctgt catctcacct
                                                                    5040
tgctcctgcc gagaaagtat ccatcatggc tgatgcaatg cggcggctgc atacgcttga
                                                                     5100
teeggetace tgeceatteg accaecaage gaaacatege ategagegag caegtacteg
                                                                    5160
gatggaagcc ggtcttgtcg atcaggatga tctggacgaa gagcatcagg ggctcgcgcc
                                                                     5220
agccgaactg ttcgccaggc tcaaggcgcg catgcccgac ggcgatgatc tcgtcgtgac
                                                                     5280
ccatggcgat gcctgcttgc cgaatatcat ggtggaaaat ggccgctttt ctggattcat
                                                                     5340
cgactgtggc cggctgggtg tggcggaccg ctatcaggac atagcgttgg ctacccgtga
                                                                     5400
tattgctgaa gagcttggcg gcgaatgggc tgaccgcttc ctcqtgcttt acqqtatcqc
                                                                     5460
cgctcccgat tcgcagcgca tcgccttcta tcgccttctt gacgagttct tctgagggga
                                                                     5520
togatocgto otgtaagtot goagaaattg atgatotatt aaacaataaa gatgtocact
                                                                     5580
aaaatggaag tttttcctgt catactttgt taagaagggt gagaacagag tacctacatt
                                                                     5640
5700
tetttaetga aggetettta etattgettt atgataatgt tteatagttg gatateataa
                                                                     5760
tttaaacaag caaaaccaaa ttaagggcca gctcattcct cccactcatg atctatagat
                                                                     5820
ctatagatct ctcgtgggat cattgttttt ctcttgattc ccactttgtg gttctaagta
                                                                     5880
ctgtggtttc caaatgtgtc agtttcatag cctgaaqaac gagatcagca gcctctgttc
                                                                     5940
cacatacact tcattctcag tattgttttg ccaagttcta attccatcag aagctgactc
                                                                     6000
tagatetgga teeggeeage taggeegteg acetegagtg ateaggtace aaggteeteg
                                                                     6060
ctctgtgtcc gttgagctcg acgacacagg acacgcaaat taattaaggc cggcccgtac
                                                                     6120
cetetagtea aggeettaag tgagtegtat taeggaetgg eegtegtttt acaaegtegt
                                                                     6180
gactgggaaa accetggcgt tacccaactt aatcgccttg cagcacatcc ccctttcgcc
                                                                     6240
agetggegta atagegaaga ggeeegeace gategeeett eeeaacagtt gegeageetg
                                                                     6300
aatggcgaat ggcgcttcgc ttggtaataa agcccgcttc ggcgggcttt ttttt
                                                                     6355
```

<210> 3 <211> 28

<212> DNA

<213> Plasmid vector

<210> 4 <211> 26 <212> DNA <213> Plasmid vector	
<400> 4	
ggaagcaagc caaagaggag cacatt	26
<210> 5	
<211> 27	
<212> DNA	
<213> Plasmid vector	
<400> 5	
aactggttet tgtetggett ggeeege	27
<210> 6	
<211> 25	
<212> DNA	
<213> Plasmid vector	
<400> 6	
gggccaagcc agacaagaac cagtt	25
<210> 7	
<211> 28	
<212> DNA	
<213> Plasmid vector	
<400> 7	
aaggteeteg etetgtgtee gttgaget	28
<210> 8	
<211> 24	
<212> DNA	
<213> Plasmid vector	
<400> 8	
caacggacac agagcgagga cctt	24
	≟ ₹
<210> 9	
<211> 27 <212> DNA	
<213> Plasmid vector	
<400> 9	
aatttgegtg teetgtgteg tegaget	27
<210> 10	
<211> 23	
<212> DNA	
<213> Plasmid vector	
<400>-10	
cgacgacaca ggacacgcaa att	23

<210> 11

<211> 26 <212> DNA <213> Plasmid vector	
<400> 11 tgtgctcctc tttggcttgc ttccaa	26
<210> 12 <211> 26 <212> DNA	
<213> Plasmid vector	
<400> 12 ttggaagcaa gccaaagagg agcaca	26
<210> 13	
<211> 25	
<212> DNA <213> Plasmid vector	
<400> 13	
ctggttcttg tctggcttgg cccaa	25
<210> 14	
<211> 25	
<212> DNA	
<213> Plasmid vector	
<400> 14	
ttgggccaag ccagacaaga accag	25
<210> 15	
<211> 24	
<212> DNA	
<213> Plasmid vector	
<400> 15	
ggtcctcgct ctgtgtccgt tgaa	24
<210> 16	
<211> 24	
<212> DNA	
<213> Plasmid vector	
<400> 16	
ttcaacggac acagagcgag gacc	24
<210> 17	
<211> 23	
<212> DNA	
<213> Plasmid vector	
 <400> 17	
 tttgcgtgte etgtgtegte gaa	23
<210> 18	
<211> 23	

<212> DNA <213> Plasmid vector	
<400> 18	
ttcgacgaca caggacacgc aaa	23
<210> 19	
<211> 25	
<212> DNA	
<213> Plasmid vector	
<400> 19	
atgaccgctc aggaaacctg ttgca	25
<210> 20	
<211> 25	
<212> DNA	
<213> Plasmid vector	
<400> 20 .	
ataggcatag taggccagct tgagg	25
<210> 21	
<211> 51	
<212> DNA	
<213> Plasmid vector	
<400> 21	
tgtgctcctc tttggcttgc ttccaattaa ccctcactaa agggaacgaa t	51
<210> 22	
<211> 50	
<212> DNA	
<213> Plasmid vector	
<400> 22	
ctggttettg tetggettgg eccaatgeaa eaggttteet gageggteat	50
<210> 23	
<211> 49	
<212> DNA	
<213> Plasmid vector	
<400> 23	
ggtcctcgct ctgtgtccgt tgaacctcaa gctggcctac tatgcctat	49
<210> 24	
<211> 49	
<212> DNA	
<213> Plasmid vector	
<400> 24	4.0
tttgcgtgtc ctgtgtcgtc gaacgactaa tacgactcac tatagggcg	49
<210> 25	
<211> 25	
<212> DNA	

<213> Plasmid vector	
<400> 25	
gccaatggac tcttagtttt ggaac	25
gooda gara sacang s	20
<210> 26	
<211> 25	
<212> DNA	
<213> Plasmid vector	
<400> 26	
gttctggcaa acaaattcgg cgcac	25
<210> 27	
<211> 51 <212> DNA	
<212> DNA <213> Plasmid vector	
(213) Ilabilia Vector	
<400> 27	
tgtgctcctc tttggcttgc ttccaattaa ccctcactaa agggaacgaa t	51
<210> 28	
<211> 50	
<212> DNA	
<213> Plasmid vector	
<400> 28	
ctggttcttg tctggcttgg cccaagttcc aaaactaaga gtccattggc	50
<210> 29	
<211> 49	
<212> DNA	
<213> Plasmid vector	
<400> 29	
ggtcctcgct ctgtgtccgt tgaagtgcgc cgaatttgtt tgccagaac	49
gycoologot otgegeolyt cyaagtgoge cyaatteget tyocagaac	4.7
<210> 30	
<211> 25	
<212> DNA	
<213> Plasmid vector	
<400> 30	
gaaccttggt gtgccaagtt acttc	25
<210> 31	
<211> 25	
<212> DNA	
<213> Plasmid vector	
<400> 31	
gaactttggc tgaacccctt gttct	25

<210> 32 <211> 52 <212> DNA <213> Plasmid vector

<400> 32		
tgtgctcctc tttggcttgc gttgaacgac taatacgact cactataggg cg	52	
	32	
<210> 33		
<211> 50		
<212> DNA		
<213> Plasmid vector		
<400> 33		
ctggttcttg tctggcttgg cccaagaagt aacttggcac accaaggttc	50	
	50	
<210> 34		
<211> 48		
<212> DNA		
<213> Plasmid vector		
<400> 34		
ggtcctcgct ctgtgtccgt tgaagaacaa ggggttcagc caaagttc	48	
ggggcodago odgagcodgo tgaagaadaa ggggcodago oddagcoo	40	
<210> 35		
<211> 48		
<212> DNA		
<213> Plasmid vector		
(213) IIBSMIG Vector		
<400> 35		
tttgcgtgtc ctgtgtcgtc gaattaaccc tcactaaagg gaacgaat	48	
_ cogogogo ocgogoogo gaaccaacce coaccaaayy gaacgaac	40	
<210> 36		
<211> 25		
<212> DNA		
<213> Plasmid vector		
72137 TTASMIA VECTOL		
<400> 36		
atgccggatc tcctactact gggcc	25	
acgooggato tootactact gggco	2.5	
<210> 37		
<211> 25		
<212> DNA		
<213> Plasmid vector		
1210) I Idomita vocioi		
<400> 37		
tgtcatagta gacagcgatg gaacg	25	
agreering our guougogueg guuog	23	
<210> 38		
<211> 53		
<212> DNA		
<213> Plasmid vector		
<400> 38		
gacaagaacc agttgacgtc aagctteeeg ggacgegtge tageggegeg eeg	53	
<210> 39		
 <211> 50		
<212> DNA		
<213> Plasmid vector		

<pre><400> 39 ctggttcttg tctggcttgg cccaaggccc agtagtagga gatccggcat</pre>	50
2210 40	
<210> 40 <211> 49	
<212> DNA	
<213> Plasmid vector	
<400> 40	
ggtcctcgct ctgtgtccgt tgaacgttcc atcgctgtct actatgaca	49
<210> 41	
<211> 50	
<212> DNA	
<213> Plasmid vector	
<400> 41	
ctggttettg tetggettgg cecaaaaage egacageeae geteacaage	50
	30
<210> 42	
<211> 49	
<212> DNA	
<213> Plasmid vector	
<400> 42	
ggtcctcgct ctgtgtccgt tgaagcccaa tgccacagag acagaatgt	49
<210> 43	
<211> 51 <212> DNA	
<213> Plasmid vector	
(213) Flashid vector	
<400> 43	
ctggttcttg tctggcttgg cccaagttgg atcctctcca aggccccatc t	51
<210> 44	
<211> 50	
<212> DNA	
<213> Plasmid vector	
<400> 44	EΛ